

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application:

LISTING OF CLAIMS:

Claims 1 to 11. (Canceled)

12. (Currently Amended) A solenoid valve, comprising:
a valve housing including at least one feed channel and at least one discharge channel;
an electromagnetically switched valve member that establishes a connection between the at least one feed channel and the at least one discharge channel in a first switch position and blocks the connection in a second switch position;
a magnet coil including a guide bushing that is inserted into an expanded part of an opening of the magnet coil that is delimited by an annular shoulder;
an armature to which is rigidly connected the valve member and capable of movement by displacing fluid in the guide bushing; and
a damping disk surrounding the armature and situated between the annular shoulder and an adjacent face end of the guide bushing, the damping disk configured to dampen the movement of the armature by restriction of a flow of fluid through an annular gap between an inner circumference of the damping disk and an outer circumference of the armature.

13. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the armature is axially movable in relation to the damping disk.

14. (Previously Presented) The solenoid valve as recited in Claim 12, wherein an annular gap between an inner circumference of the damping disk and the armature has a clearance of less than 0.05 mm at least over a part of a displacement path of the armature.

15. (Previously Presented) The solenoid valve as recited in Claim 14, wherein the annular gap has a clearance of less than 0.05 mm over an entire displacement path of the armature.

16. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the damping disk is to a limited degree axially movable between the annular shoulder and the adjacent face end of the guide bushing.

17. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the damping disk is pressed against one of the face end of the guide bushing and the annular shoulder by the fluid displaced by the armature over at least a part of the displacement path of the armature.

18. (Previously Presented) The solenoid valve as recited in Claim 12, wherein an external circumference of the damping disk is situated at a radial distance from an inner wall of the expanded part of the opening.

19. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the damping disk includes bronze.

20. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the damping disk includes polypropylene sulfide.

21. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the damping disk is slotted.

22. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the damping disk has no interruption.

23. (Previously Presented) The solenoid valve as recited in Claim 12, wherein the solenoid valve is for at least one of a fluid-regulated heating system and a fluid-regulated cooling system.

24. (Previously Presented) The solenoid valve as recited in Claim 12, wherein an annular gap between an inner circumference of the damping disk and the armature has a clearance of less than 0.025 mm at least over a part of a displacement path of the armature.

25. (Previously Presented) The solenoid valve as recited in Claim 24, wherein the annular gap has a clearance of less than 0.025 mm over an entire displacement path of the armature.

26. (New) The solenoid valve as recited in claim 12, wherein the damping disk is movable between a first axial position, in which a first axial surface of the damping disk forms a seal with the adjacent face end of the guide bushing, and a second axial position, in which a second axial surface of the damping disk forms a seal with the annular shoulder.